

FIG. 1

STORAGE PORTION

SYSTEM CONTROL PORTION

USER I/F PROCESSING PORTION

BEAM CONTROL PROCESSING PORTION

MEASURED DATA ANALYSIS PROCESSING PORTION

SOUND SOURCE POSITION CORRECTION PROCESSING PORTION

OPERATING PORTION

DISPLAY PORTION

PHANTOM FORMATION PORTION

BEAM FORMATION PORTION

10 SPEAKER ARRAY

31 DELAY PORTION

4: SOUND SOURCE POSITION CORRECTION

B: DECODER OUTPUT

: ANALOG INPUT

D: ANGLE SETTING OF EACH CHANNEL

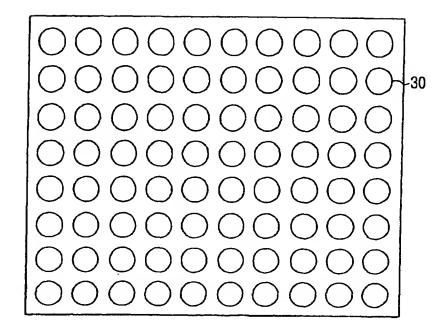
FLOW OF MEASURED DATA

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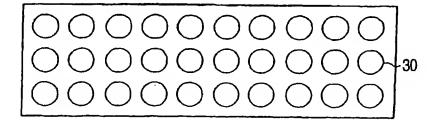
F: FLOW OF CONTROL INFORMATION

Fig. 2

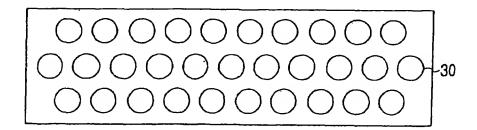
(A)

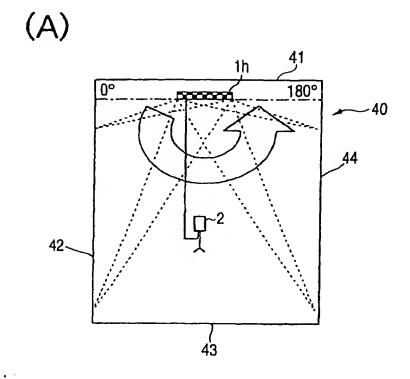


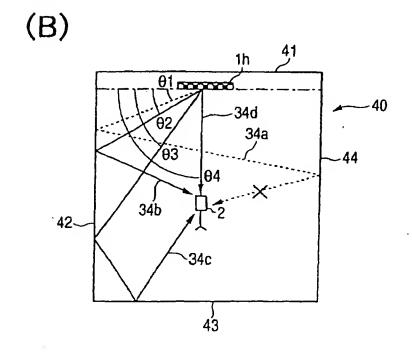
(B)



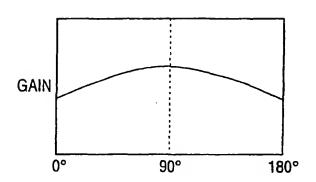
(C)

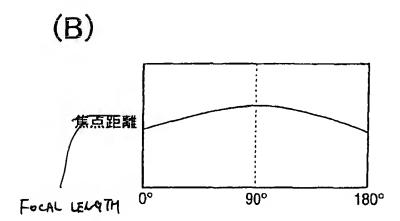




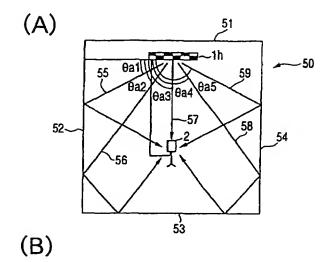


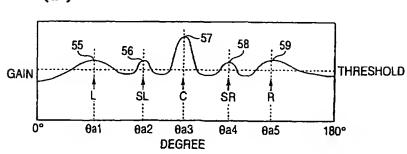
(A)

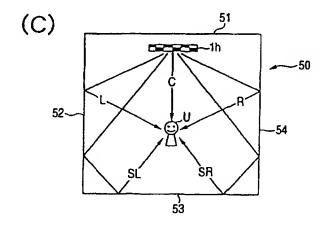


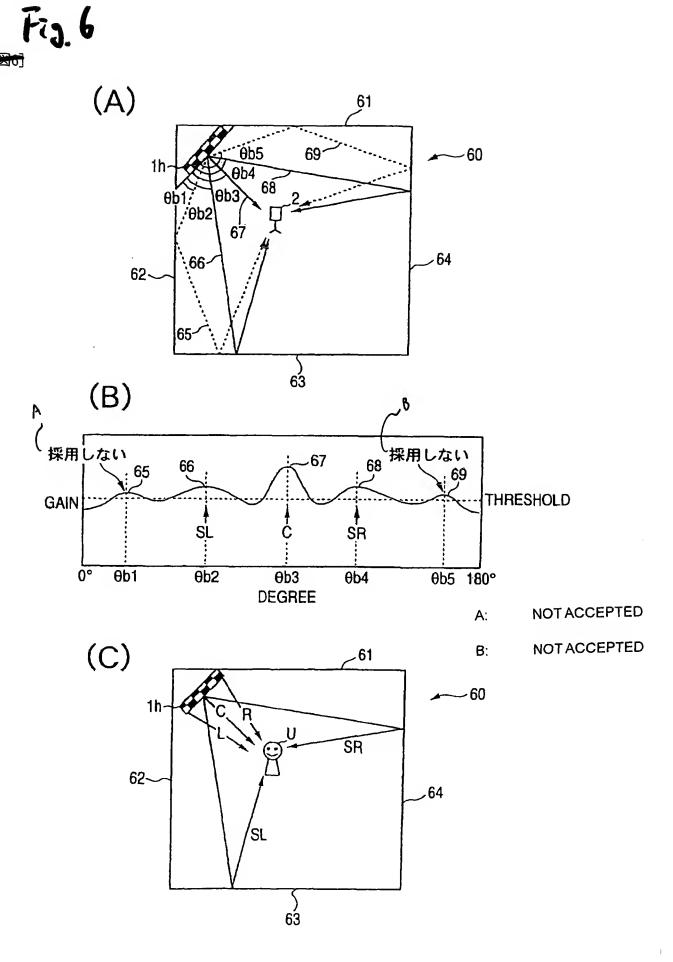


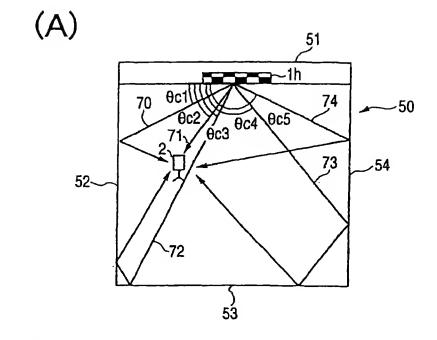


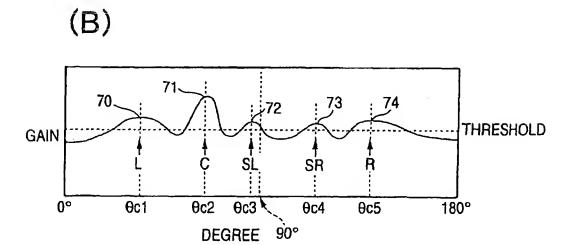


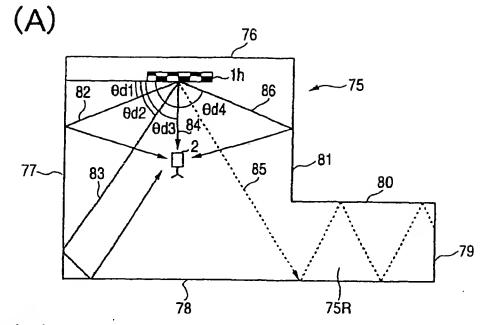


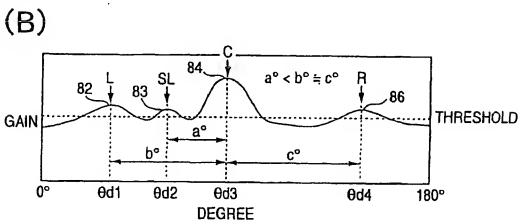


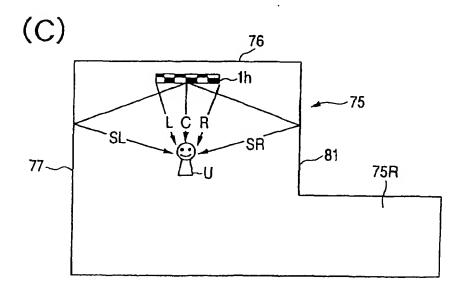


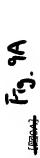




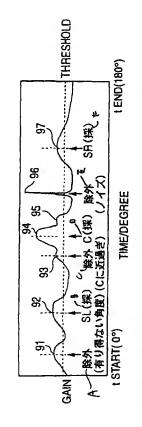




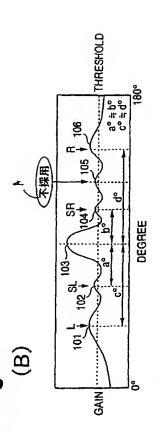




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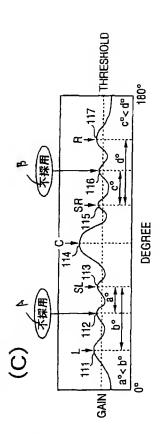


FIG. 9(A)

A: EXCLUDED (IMPOSSIBLE ANGLE)

B: SL (ACCEPTED)

EXCLUBED (TOO CLOSE TO C)

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C (ACCEPTED)

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EXCLUDED (NOISE)

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F: SR (ACCEPTED)

FIG. 9(B)

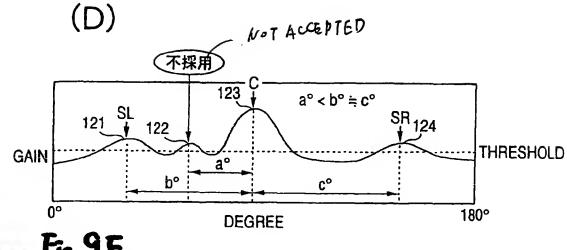
A: NOT ACCEPTED

FIG. 9(C)

A: NOT ACCEPTED

B: NOT ACCEPTED

Fg. 9P
(D)



Fg.9E

(E)

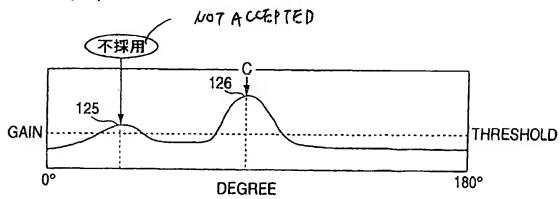
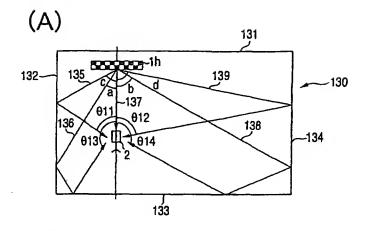
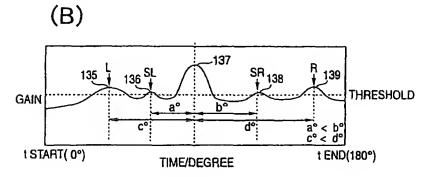
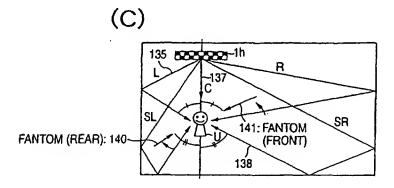


Fig. 10
(A)









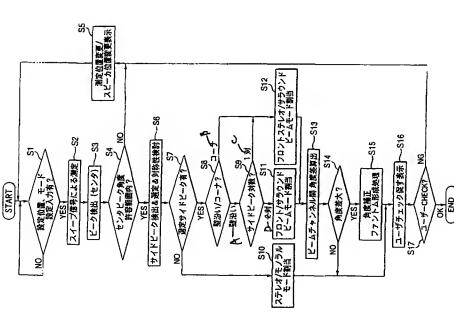


FIG. 11

- S1 ARE THERE INSTALLATION POSITION INPUT AND MODE SETTING INPUT?
- S2 MEASURE WITH SWEEP SIGNAL
- DETECT PEAK (CENTER)

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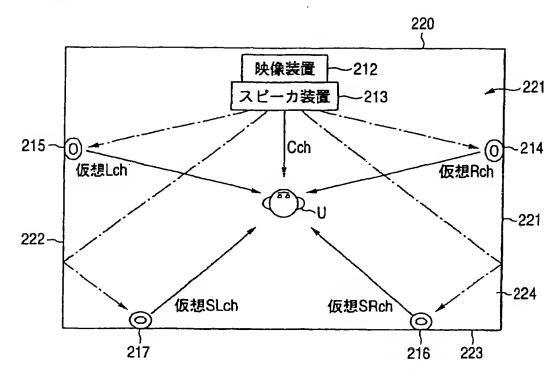
- IS CENTER PEAK ANGLE WITHIN ALLOWABLE RANGE?
- S5 DISPLAY TO CHANGE MEASURING POSITION OR CHANGE SPEAKER

POSITION

- S6 DETECT AND SELECT SIDE PEAKS AND CHECK SYMMETRY
- S7 ARE THERE SELECTED SIDE PEAKS?
- S8 ALONG WALL OR IN CORNER?
- A: IN CORNER
- B: ALONG WALL
- S9 HOW MANY PAIRS OF SIDE PEAKS?
- ONE PAIR

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- D: TWO PAIRS
- \$10 ASSIGN STEREO/MONAURAL MODE
- S11 ASSIGN FRONT/SURROUND-SOUND BEAM MODE
- S12 ASSIGN FRONT STEREO/SURROUND-SOUND BEAM MODE
- S13 CALCULATE DIFFERENCE IN ANGLE BETWEEN BEAM CHANNELS
- S14 IS DIFFERENCE IN ANGLE LARGE?
- S15 PERFORM ANGLE CORRECTION AND PHANTOM FORMATION PROCESSING
- S16 DISPLAY TO PROMPT USER TO CHECK
- S17 IS USER'S CHECK SUCCESSFUL?



- 212 VIDEO APPARATUS
- 213 SPEAKER APPARATUS
- 214 VIRTUAL Rch
- 215 VIRTUAL Lch
- 216 VIRTUAL SRch
- 217 VIRTUAL SLch